

2/19/25
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

05654181 **Image available**
SEAL PUMP

PUB. NO.: 09-268981 [JP 9268981 A]
PUBLISHED: October 14, 1997 (19971014)
INVENTOR(s): KASAI SHOZO
 UWABE SATORU
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP
 (Japan)
APPL. NO.: 08-081198 [JP 9681198]
FILED: April 03, 1996 (19960403)
INTL CLASS: [6] F04C-015/00; F04C-002/344; F16C-033/78; F16J-015/32
JAPIO CLASS: 24.1 (CHEMICAL ENGINEERING -- Fluid Transportation); 14.2
 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds); 22.1
 (MACHINERY -- Machine Elements)

ABSTRACT

PROBLEM TO BE SOLVED: To suppress oil leaked in a rotary shaft part in the lowest level so as to prevent gas from moving in the rotary shaft part by arranging a ball bearing for supporting oil seal and a load by two lips, between the rotary shaft of the power leading-in side of a rotary vane type pump and a side flange, and filling grease in a clearance between two lips.

SOLUTION: In a rotary vane type rotary pump, four rotary vanes are arranged, and a side flange 11 is penetrated on one end side of a rotary shaft 10 connected to a motor for driving the rotary vanes 9. On the other side, namely, on a power leading-in side provided with a fan 18, a ball bearing 15, an inner oil seal 20a in which sealing performance is improved at the time of positive pressure in a casing, and an outer oil seal 20b in which sealing performance is improved at the time of negative pressure, are penetrated, and thereby, the power leading-in side is extendingly arranged. In each oil seal 20a, 20b, a lip is integrately formed on the inner side of a seal case, and grease having a melting point of 150 deg.C or more is filled between lips of both oil seals 20a, 20b.

C:\Program Files\Dialog\DialogLink\Graphics\1D.bmp

